CLAIMS

1. Austenitic nickel-chromium-molybdenum alloy with additives of silicon, characterized by the alloy components (in mass %)

Cr	18 – 22 %
Mo	6 – 10 %
Si	0.6 – 1.7 %
C	0.002 – 0.05 %
Fe	1 – 5 %
Mn	0.05 – 0.5 %
Al	0.1 – 0.5 %
Ti	0.1 – 0.5 %
Mg	0,005 – 0.05 %
Ca	0.001 – 0.01 %
V	max. 0.5 %
P	max. 0.02 %
S	max. 0.01 %
B	0.001 – 0.01 %
Cu	max. 0.5 %
Co	max. 1 %

Hf and/or Y and/or Zr and/or rare earth : 0.02 – 0.5%, the remainder being nickel and impurities caused by the melting process.

2. Alloys as in claim 1, characterized by the alloy components (in mass %)

Cr	18 – 20 %
Mo	8 – 9 %
Si	0.7 – 1.1 %
C	0.02 – 0.015 %
Fe	2.5 – 3.5 %
Mn	0.05 – 0.1 %
Al	0.1 – 0.3 %
Ti	0.1 – 0.4 %
Mg	0,005 – 0.015 %
Ca	0.001 – 0.005 %
V	max. 0.01 %
P	max. 0.002 %
S	max. 0.001 %
B	0.001 – 0.001 %
Cu	max. 0.5 %

Hf and/or Y and/or Zr and/or rare earth : 0.03 – 0.06%, the remainder being nickel and impurities caused by the melting process.

3. Alloys as in claim 1, characterized by molybdenum contents between 6.5 and 9.5 %.

4. Alloys as in claim 1, characterized by a silicon content between 0.6 and 1.3 %

5. Utilization of the alloy as in one of the claims 1 to 4 for the production of pipes, sheet metal, band material, film, wires as well as articles made of these semi-finished products.

6. Utilization of the alloy as in one of the claims 1 to 4 for the production of composite pipes.

7. Utilization of the alloy as in one of the claims 1 to 4 as corrosion protection applied by means of build-up welding or plating.